Index to Volume 47

Roentgen Diagnosis

Nervous System

Pag.

EEG after angiocardiography 169
EEG during cerebral angiography . . . 181
Cerebral vasomotor tone and EEG during injection of Umbradil 185

Digestive Tract

Contrast media for cholegraphy 349
Enlargement of spleen immediately after water load 371

Heart and Vessels (incl. Lymphatic Vessels)

Portal circulation in portal hypertension 1
Puncture and contrast injection into the heart 33
Intracardiac pressure changes with fluid injection into the right heart 89
Angiocardiography in mitral disease . . 97
Strain obstruction syndrome of femoral vein 119
EEG after angiocardiography 169
EEG during cerebral angiography . . . 181
Cerebral vasomotor tone and EEG during injection of Umbradil 185
Lieno-portal venography 257, 269
Experimental micro-lymphangiography . 289
Pterygoid plexus venography 341
Arterial 'spasm' in peripheral arteriography 433
Arterial spasm caused by catheterization 449
Electrokymographic observations in myxoma of left atrium 461

Lungs, Pleura, Mediastinum and Chest Walls

Pulmonary mycoma 23
Pulmonary changes following bronchography 177
Changes in lungs and vertebrae following intense rotation roentgen therapy . . . 281

Bones and Joints

Changes in lungs and vertebrae following intense rotation roentgen therapy . . 281
Normal motility of lumbosacral spine . . 345

Ophtalmology

Orbitography with water-soluble contrast media 417
Orbital pneumography 426

Uro-Genital System

Pag.

In vivo measurement of organ size using a gamma radioactive source 157
Effectiveness of urologic contrast media 192
Pelvimetric method for assessment of pelvic 'mouldability' 365
Renal damage due to aortography . . 473

Radiotherapy

Roentgen treatment of myeloma 46
Malignant granuloma 229
Changes in lungs and vertebrae following intense rotation roentgen therapy . . . 281
Discrepancies between depth dose data . 374
Malignant tumours and sarcoid reactions in regional lymph nodes 381

Radioactive Isotopes

Distribution of internally deposited thorium 65
In vivo measurement of organ size using a gamma radioactive source 157
Method for macroscopic radioautography 199
Apparatus for localization of gamma emitting isotopes *in vivo* 217
Measurement of histologic sections using backscattering of beta particles . . . 249
Proton magnetic resonance of human cervical mucus 315
Thyroid index factor 393
Excretion of thorium after Thorotrast administration 481

Radiophysics

Determination of roentgen tube focal spot by pin-hole camera 55
Application of the ferrous-ferric system for routine measurements 203
Discrepancies between depth dose data . 374
Scattered radiation in rotation therapy room using 200 kV 407

Radiobiology

Effects of explosive blast in mice with radiation injury 79
Cataract formation following whole-body roentgen irradiation 138
Influence of roentgen irradiation on the growth of multiple tumours 149
Biologic effects of 30 MeV$_p$ and 220 kV$_p$ roentgen rays and 0.4 MeV gamma rays at 8—9° C 321

Pag.

Malignant tumours and sarcoid reactions in regional lymph nodes 381
Effects of 2-methyl and 2:3-dimethyl synkavite on chromosomal aberrations induced by roentgen rays 397

Technique

Roentgen Examination

A new cassette 29
Puncture and contrast injection into the heart 33
Geometrische Untersuchungen über Schichtdarstellung pathologischer Veränderungen 327
Comparative study of bromine and iodine in contrast radiography 357
Site as influence upon density of contrast media 361
Pelvimetric method for assessment of pelvic 'mouldability' 365
Catheter for percutaneous angiography . 470

Protection and Injuries

Effects of explosive blast in mice with radiation injury 79
Cataract formation following whole-body roentgen irradiation 138
Influence of roentgen irradiation on the growth of multiple tumours 149

Miscellaneous

Treatment of chronic lymphatic leukaemia with CB 1348 210
Roentgenographic and toxicologic studies on lead EDTA 308

Book Reviews

Pag.

Tomographic studies on the normal and injured knee 86
Die Wirbelverschiebung in der Lendengegend 87
Principles of chest X-ray diagnosis . . . 88
Observations on the migration of certain labelled substances between the urinary bladder and the blood in the rabbit . . 168
Biophysical investigations of urinary calculi 254
Renal angiography in experimental hydronephrosis 255
Über die Technik der simultanen Telefilmplanigraphie 255
Cellular aspects on basic mechanisms in radiobiology 256
On parallax and variations in the stereoscopic image with a view to stereofluoroscopy 337
A radiologic study of the brain circulation by rapid serial angiography of the carotid artery 338
Technique de radiodiagnostic 338
La tomographie axiale transversale . . . 339
Röntgendiagnostik des Hüftgelenks . . . 340
Studies on the distribution of tritium-labelled dihydrostreptomycin and tetracycline in the body 416
Grenzen des Normalen und Anfänge des Pathologischen im Röntgenbild des Skelettes 499
The spine (Anatomic-radiographic studies. Development and the cervical region) . 499
Strahlendosis und Strahlenwirkung. Tafeln und Erläuterungen. Unterlagen für den Strahlenschutz 500
Clinical roentgenology. Volume 4 500
Zwerchfellpathologie im Röntgenbild . . 501
La polyarthrite. Chronique évolutive . . 502
The measurement of body radioactivity 502
Die gesunde und die kranke Wirbelsäule in Röntgenbild und Klinik 503

List of Authors

(r) indicates »reviewed only»

André, Torsten, 416 (r)
Andrén, Lars, 371
Arvidsson, H., 97
Aurand, K., 500 (r)

Baarli, Johan, 203
Backlund, Vidar, 256 (r)
Bartley, Osborne, 433
Bellman, Sven, 289
Bergstrand, I., 1, 257, 269
Bertelsen, Torstein I., 426
Björk, Lars, 177
Bonte, G., 339 (r)
Bora, K. C., 321, 397
Borell, U., 365
Borge, Per, 203
Borgström, Karl-Eric, 281
Brenot, M., 339 (r)
Brocher, J. E. W., 87 (r)
Bryhn, Ulla, 315

Clemedson, Carl-Johan, 79
Colodzin, M., 481

Edling, Nils P. G., 473
Ekman, C.-A., 1, 257, 269
Englund, Sven Erik, 157, 168 (r)

Fagerberg, Stig, 86 (r)
Fernström, I., 365
Figley, Melvin M., 33
Fournier, A.-M., 502, (r)

Glauner, Rolf, 340 (r)
Gorton, Gunnar, 381
Gracia-Calderon, J., 338 (r)
Greitz, Torgny, 338 (r)
Gullmo, Åke, 119
Gynning, Inge, 281

Hadley, Leo A., 499 (r)
Hannan, J., 500 (r)
Hansen, Poul Bjerre, 210
Haubrich, R., 501 (r)
Helander, C. G., 473
Hug, O., 500 (r)
Hultberg, Sven, 229
Hursh, J. B., 481

Idbohrn, Hans, 255 (r)
Ingvar, David H., 181, 185
Isemein, L., 502 (r)

Jirout, Jan, 345
Jonsson, Lars, 217
Jönsson, Gunnar, 169
Junghanns, Herbert, 503 (r)

Karnell, Johan, 169
Kirstein, Lennart, 169
Koch, Hj., 229
Köhler, A., 499 (r)
Kuntke, A. H. G., 55

Lagergren, Curt, 254 (r)
Larsson, Lars-Gunnar, 217
Ledoux-Lebard, H., 338 (r)
Lessman, Franz P., 341
Lindbom, Åke, 449
Lindgren, Martin, 374
Linell, F., 381
Lodin, Herman, 23, 177
Lombardi, Guido, 417
Looney, W. B., 481
Lorimier, de, A. A., 500 (r)
Lowry, W. S. B., 393

Madsen, Erik, 192
Mahmoud, K. A., 407
Mannila, Tauno O., 337 (r)
Marchetta, Frank C., 341
Marions, Olle, 461
Marquardt, W., 340 (r)
Mårtensson, Gunnar, 229
Mattsson, Ove, 29, 361
Mergler, H., 500 (r)
Meurman, Leo, 157
Moberger, Gunnar, 229
Moehring, H., 500 (r)
Muth, H., 500 (r)
Nelson, Arne, 79, 199
Nordenström, Björn, 33, 89
Norin, Torsten, 46

Odeblad, Erik, 157, 254, 315
Odén, Bo, 289
Ödman, Per, 97, 461

Pauly, A., 500 (r)
Petersen, Olaf, 426
Philipson, Jan, 169
Poppe, Erik, 138

Ragnhult, Inger, 217
Rajewsky, B., 500 (r)
Rundo, J., 65

Schmorl, Georg, 503 (r)
Schobinger, Robert, 341
Schraub, E., 500 (r)
Shapiro, Robert, 357
Shehadi, William H., 349
Simon, George, 88 (r)
Six, E., 500 (r)
Sloan, Herbert, 33
Söderberg, Ulf, 185
Steadman, L. T., 481

Tjernberg, Bengt, 308
Tornvall, Gunnar, 470
Trinez, G., 339 (r)

Wickbom, Ingmar, 433
Vikterlöf, K. J., 407
Wolf, I., 500 (r)

Voutilainen, Antero, 149

Yiannakopoulos, Ap., 327

Zimmer, E. A., 499 (r)

Å, Ä, see **A**

Ö, Ø, see **O**

Stockholm 1957. Kungl. Boktr. P. A. Norstedt & Söner

Contents of Volume 47

		Pagina
Portal circulation in portal hypertension	*I. Bergstrand* and *C.-A. Ekman*	1
Roentgen diagnosis of pulmonary mycoma	*Herman Lodin*	23
A new cassette	*Ove Mattsson*	29
Controlled puncture and contrast injection into the left ventricle of the heart	*Björn Nordenström, Melvin Figley* and *Herbert Sloan*	33
Roentgen treatment of myeloma with special consideration to the dosage	*Torsten Norin*	46
On the determination of roentgen tube focal spot-sizes by pin-hole camera roentgenography	*A. H. G. Kuntke*	55
The determination of the distribution of internally deposited thorium by means of studies with a realistic phantom	*J. Rundo*	65
The effects of a high explosive blast in mice with radiation injury	*Carl-Johan Clemedson* and *Arne Nelson*	79
Book reviews		86
Intracardiac pressure changes with rapid fluid injection into the right heart	*Björn Nordenström*	89
Angiocardiography in mitral disease. Preliminary report	*H. Arvidsson* and *P. Ödman*	97
The strain obstruction syndrome of the femoral vein	*Åke Gullmo*	119
Experimental investigations on cataract formation following whole-body roentgen irradiation	*Erik Poppe*	138
Experimental investigations on the influence of roentgen irradiation on the growth of multiple tumours	*Antero Voutilainen*	149
In vivo measurement of organ size using a gamma radioactive point source ('scintillometry') with special reference to applications in gynecology and obstetrics	*Erik Odeblad, Sven Erik Englund* and *Leo Meurman*	157
Book review		168
EEG after angiocardiography	*Lennart Kirstein, Gunnar Jönsson, Johan Karnell* and *Jan Philipson*	169
Pulmonary changes following bronchography with Dionosil Oily (animal experiments)	*Lars Björk* and *Herman Lodin*	177
EEG during cerebral angiography	*David H. Ingvar*	181
Cerebral vasomotor tone and EEG during injections of Umbradil. An experimental study with a new method	*David H. Ingvar* and *Ulf Söderberg*	185
Effectiveness of urologic contrast media. Comparison between Diodone and Triiodyl (sodium acetriozoate)	*Erik Madsen*	192
An improved method for macroscopic radioautography	*Arne Nelson*	199

		Pagina
The application of the ferrous-ferric system for routine measurements	*Johan Baarli* and *Per Borge*	203
Clinical experience with CB 1348 (NN-di(2-chloroethyl) -p-aminophenylbutyric acid) in the treatment of chronic lymphatic leukaemia	*Poul Bjerre Hansen*	210
A scanning apparatus for the localization of gamma emitting isotopes *in vivo*	*Lars Jonsson, Lars-Gunnar Larsson* and *Inger Ragnhult*	217
Malignant granuloma	*S. Hultberg, Hj. Koch, G. Moberger* and *G. Mårtensson*	229
A method for the measurement of the thickness of histologic paraffin sections using the backscattering of beta particles	*Erik Odeblad*	249
Book reviews		254
Lieno-portal venography in the study of portal circulation in the dog	*I. Bergstrand* and *C.-A. Ekman*	257
Percutaneous lieno-portal venography. Technique and complications	*I. Bergstrand* and *C.-A. Ekman*	269
Roentgenographic changes in the lungs and vertebrae following intense rotation roentgen therapy of esophageal cancer	*Karl-Eric Borgström* and *Inge Gynning*	281
Experimental micro-lymphangiography	*Sven Bellman* and *Bo Odén*	289
Roentgenographic and toxicologic studies on lead EDTA	*Bengt Tjernberg*	308
Proton magnetic resonance of human cervical mucus during the menstrual cycle	*Erik Odeblad* and *Ulla Bryhn*	315
Comparative biologic effects of 30 MeV_p and 220 kV_p roentgen rays and 0.4 MeV gamma rays at 8—9° C	*K. C. Bora*	321
Über die Unmöglichkeit einer Schichtdarstellung pathologischer Veränderungen anhand geometrischer Untersuchungen	*Ap. Yiannakopoulos*	327
Book reviews		337
Pterygoid plexus venography	*Robert Schobinger, Franz P. Lessman,* and *Frank C. Marchetta*	341
The normal motility of the lumbosacral spine	*Jan Jirout*	345
Newer contrast media for use in cholegraphy	*William H. Shehadi*	349
A comparative study of bromine and iodine in contrast radiography	*Robert Shapiro*	357
Site as an influence upon the density of contrast media	*Ove Mattsson*	361
A pelvimetric method for the assessment of pelvic 'mouldability'	*Ulf Borell* and *Ingmar Fernström*	365

		Pagina
Enlargement of spleen immediately after water load. Preliminary communication	*Lars Andrén*	371
Discrepancies between depth dose data. A comparison between Grebe-Wiebe's and Johns' tables	*Martin Lindgren*	374
Malignant tumours and sarcoid reactions in regional lymph nodes	*Gunnar Gorton* and *Folke Linell*	381
A thyroid index factor	*W. S. B. Lowry*	393
Effect of 2-methyl and 2:3-dimethyl synkavite on the chromosomal aberrations induced by fractional and single doses of roentgen rays	*K. C. Bora*	397
Scattered radiation in a rotation therapy room using 200 kV roentgen rays	*K. A. Mahmoud* and *K. J. Vikterlöf*	407
Book review		416
Orbitography with water-soluble contrast media	*G. Lombardi*	417
Orbital pneumography	*Torstein I. Bertelsen* and *Olaf Petersen*	426
Arterial 'spasm' in peripheral arteriography using the catheter method	*I. Wickbom* and *Osborne Bartley*	433
Arterial spasm caused by puncture and catheterization. An arteriographic study of patients not suffering from arterial disease	*Åke Lindbom*	449
Electrokymographic observations in myxoma of the left atrium	*Olle Marions* and *Per Ödman*	461
A modified catheter for percutaneous angiography	*Gunnar Tornvall*	470
On the renal damage due to aortography and its prevention by renal tests. With reports of five cases of severe renal damage	*Nils P. G. Edling* and *C. G. Helander*	473
The excretion of thorium and thorium daughters after Thorotrast administration	*J. B. Hursh, L. T. Steadman, W. B. Looney* and *M. Colodzin*	481
Book reviews		499

ACTA RADIOLOGICA publishes original papers on medical radiology and nuclear medicine. The articles are printed in English, French or German according to the wishes of the author.

Annual subscription rate Swed. Kr. 70: — plus Sw. Kr. 6: — postage outside Scandinavia, payable in advance. (Two volumes, each of 6 numbers, appear annually.) Single copies Sw. Kr. 7: — plus postage Sw. Kr. 1: —. The subscription will be considered automatically renewed if it has not been cancelled at the latest 10 days before the publication of a new volume.

All communications in regard to advertising, subscriptions, changes of address, etc., should be sent to Acta Radiologica, Stockholm 2, Sweden.

ACTA RADIOLOGICA publiziert Arbeiten auf dem Gebiete der medizinischen Radiologie und Kernphysik. Die Beiträge werden, je nach eigener Wahl des Verfassers, in deutscher, englischer oder französischer Sprache veröffentlicht.

Abonnementspreis pro Jahr: Schw. Kr. 70: —, zuzügl. Postgebühren, Schw. Kr. 6: — ausserhalb Skandinavien, im voraus zu bezahlen. (Zwei Bände, je von 6 Heften, erscheinen jährlich.) Einzelne Hefte Schw. Kr. 7: —, zuzügl. Postgebühren Schw. Kr. 1: —. Die Zeitschrift wird den Beziehern bis zu Abbestellung geliefert; diese muss spätestens 10 Tage vor Beginn einnes neuen Bandes bei der Redaktion eingehen.

Korrespondenz betreffs Anzeigen, Abonnements, Adressveränderungen etc. soll an Acta Radiologica, Stockholm 2, adressiert werden.

ACTA RADIOLOGICA publie des ouvrages dans le domaine de la radiologie médicale et la médecine nucléaire. Les articles sont publiés en français, en anglais ou en allemand, au choix de l'auteur.

Prix de l'abonnement par an Kr. suéd. 70: —, port Kr. suéd. 6: — en sus en dehors de la Scandinavie, payable d'avance. (Deux volumes, chacun de 6 fascicules, sont publiés par année.) Prix par fascicule Kr. suéd. 7: —, port Kr. suéd. 1: — en sus. L'abonnement se renouvelle automatiquement s'il n'est pas résilié 10 jours, au plus tard, avant le commencement d'un nouveau volume.

Adresser toute corresponcance au sujet d'insertion, d'abonnements et de changements d'adresse à Acta Radiologica, Stockholm 2, Suède.

Supplements to Acta Radiologica

The supplements are published from time to time and are not included in the subscription rate. Prices and year of publication of numbers already issued are detailed below.

I. Åke Åkerlund: *Röntgenologische Studien über den Bulbus Duodeni.* 1921. (Out of print.)

II. Gösta Forssell: *On the Permanency of Radiological Healing in Malignant Tumours.* 1928. Price bound Sw. Kr. 10: —; unbound Sw. Kr. 8: —.

III. An account of the Second International Congress of Radiology, Stockholm, 1928. Price Sw. Kr. 15: —.

IV. Teaching and Training in Medical Radiology. Papers delivered at the Second International Congress of Radiology. 1930. Price Sw. Kr. 20: —.

V. Catalogue des Portraits des Membres du Deuxième Congrès International de Radiologie à Stockholm, 23—27 Juillet 1928. 2ème Edition, complétée. Price Sw. Kr. 5: —.

VI. Gunnlaugur Claessen: *The Roentgen Diagnosis of Echinococcus Tumors.* 1928. Price Sw. Kr. 15: —. (Out of print.)

VII. Martin Odin & Gösta Runström: *Iodized Oils as an Aid to the Diagnosis of Lesions of the Spinal Cord and a Contribution to the Knowledge of Adhesive Circumscribed Meningitis.* 1928. Price Sw. Kr. 15: —.

VIII. Carl Krebs: *The Effect of Roentgen Irradiation on the Interrelation between Malignant Tumors and their Hosts.* 1929. Price Sw. Kr. 8: —.

IX. Jens Juul: *Experimental Studies on Roentgen Treatment of Malignant Tumors.* 1929. Price Sw. Kr. 8: —.

X. Carl Krebs, H. C. Rask-Nielsen & Aage Wagner: *The Origin of Lymphosarcomatosis and its Relation to other Forms of Leucosis in White Mice.* 1930. Price Sw. Kr. 8: —.

XI. Elis Berven: *Malignant Tumors of the Tonsil.* 1931. Price Sw. Kr. 22: —.

XII. Erik Lysholm: *Apparatus and Technique for Roentgen Examination of the Skull.* 1931. Price Sw. Kr. 25: —.

XIII. S. Bakke: *Röntgenologische Beobachtungen über die Bewegungen der Wirbelsäule.* 1931. Price Sw. Kr. 10: —.

XIV. R. Sievert: *Eine Methode zur Messung von Röntgen-, Radium- und Ultrastrahlung nebst einigen Untersuchungen über die Anwendbarkeit derselben in der Physik und der Medizin.* 1932. Price Sw. Kr. 20: —.

XV. R. Thoræus: *A Study of the Ionization Method for Measuring the Intensity and Absorption of Roentgen Rays and of the Efficiency of Different Filters Used in Therapy.* 1932. Price Sw. Kr. 10: —.

XVI. T. Dale: *Der Wert der Röntgenuntersuchung in der Lungendiagnostik.* 1932. Price Sw. Kr. 10: —.

XVII. G. Runström: *A Roentgenological Study of Acute and Chronic Otitis Media.* 1933. Price Sw. Kr. 20: —.

XVIII. R. Schatzki: *Reliefstudien an der normalen und krankhaft veränderten Speiseröhre.* 1933. Price Sw. Kr. 20: —, bound 23: —.

XIX. R. Bull Engelstad: *Über die Wirkungen der Röntgenstrahlen auf die Lungen.* 1934. Price Sw. Kr. 10: —.

XX. I. Hermodsson: *Röntgenologische Studien über die traumatischen und habituellen Schultergelenkverrenkungen nach vorn und nach unten.* 1934. (Out of print.)

XXI. B. Faber: *Röntgenbiologische Untersuchungen mit Gewebekulturen als Indikator.* 1935. Price Sw. Kr. 8: —.

XXII. W. Magnusson: *Skin Cancer.* 1935. Price Sw. Kr. 20: —.

XXIII. H. Ahlbom: *Mucous- and Salivary-gland Tumours.* 1935. Price Sw. Kr. 20: —.

XXIV. E. Lysholm: *Das Ventrikulogramm.* I. Teil. 1937. Price Sw. Kr. 10: —.

XXV. E. Lysholm: *Das Ventrikulogramm.* II. Teil. 1937. Price Sw. Kr. 15: —.

XXVI. E. Lysholm: *Das Ventrikulogramm.* III. Teil. 1935. Price Sw. Kr. 12: —.

XXVII. H. Hellmer: *Röntgenologische Beobachtungen über die Ossifikation der Patella.* 1935. Price Sw. Kr. 10: —.

XXVIII. F. Knutsson: *Urethrography.* 1935. Price Sw. Kr. 12: —.

XXIX. O. Kaalund-Jørgensen: *Experimental Studies on a Transmissible Myelomatosis (Reticulosis) in Mice.* 1936. Price Sw. Kr. 12: —.

XXX. K. Lindblom: *A Roentgenographic Study of the Vascular Channels of the Skull.* 1936. Price Sw. Kr. 10: —.

XXXI. S. Grettve: *Morphologische und tierexperimentelle Studien über das Schleimhautrelief des Magen-Darmkanals.* 1936. Price Sw. Kr. 10: —.

XXXII. H. Wulff: *Die Zuverlässigkeit der Röntgendiagnostik — besonders hinsichtlich des Wertes der Urographie — und die Prognose bei Nieren- und Harnleitersteinen.* 1936. Price Sw. Kr. 15: —.

XXXIII. J. Frimann-Dahl und G. Waaler: *Röntgenologische und pathologisch-anatomische Studien über den tuberkulösen Primärkomplex.* 1936. Price Sw. Kr. 9: —.

XXXIV. S. Ribbing: *Studien über hereditäre, multiple Epiphysenstörungen*. 1937. Price Sw. Kr. 8: —.

XXXV. A. Renander: *Le traitement radiologique de l'actinomycose*. 1937. Price Sw. Kr. 8: —.

XXXVI. G. Jönsson: *Malignant Tumors of the Skeletal Muscles, Fasciæ, Joint Capsules, Tendon Sheats and Serous Bursæ*. 1938. Price Sw. Kr. 20: —.

XXXVII. B. Lilja: *Displacement of the Calcified Lineal Body in Roentgen Pictures as an Aid in Diagnosing Intracranial Tumors. An Anthropometrical Statistical Analysis*. 1939. Price Sw. Kr. 10: —.

XXXVIII. *King Gustaf V's Stockholm Jubilee Clinic*. 1939. Price Sw. Kr. 8: —.

XXXIX. G. Fr. Petersen: *Röntgenologische Untersuchungen über Arteriosklerose*. 1941. Price Sw. Kr. 8: —.

XL. T. Denstad: *Über die Bedeutung der Röntgenuntersuchung für die Kardiologie*. 1940. Price Sw. Kr. 8: —.

XLI. A. Renander: *The Roentgen Density of the Cystine Calculus*. 1941. Price Sw. Kr. 15: —.

XLII. S. Welin: *Beiträge zur Röntgendiagnostik der otitis media acuta und ihrer Komplikationen im Schläfenbein*. 1941. Price Sw. Kr. 20: —.

XLIII. S. R. Kjellberg: *Hystero-Salpingo-Pelvigraphie*. 1942. Price Sw. Kr. 15: —.

XLIV. Carl Krebs, Oskar Thordarson and Johannes Harbo: *Experiments with Mammalian Sarcoma Extracts in Regard to Cell-free Transmission and Induced Tumor Immunity*. 1942. (Out of print.)

XLV. J. Torgersen: *The Muscular Build and Movements of the Stomach und Duodenal Bulb*. 1942. Price Sw. Kr. 15: —.

XLVI. Torbjörn Caspersson and Lars Santesson: *Studies on the Protein Metabolism of the Epithelial Tumours*. 1942. Price Sw. Kr. 12: —.

XLVII. Olle Olsson: *Die Urographie bei der Nierentuberkulose*. 1943. Price Sw. Kr. 15: —.

XLVIII. Bertil Ebenius: *Cancer of the Lip*. 1943. Price Sw. Kr. 20: —.

XLIX. Arne G. Forssberg: *Studien über einige biologische Wirkungen der Röntgen- und γ-Strahlen, insbesondere am Phycomyces blakesleeanus*. 1943. Price Sw. Kr. 15: —.

L. Eivind Stokkeland: *Radiotherapy in Actinomycosis*. 1943. Price Sw. Kr. 8: —.

LI. Jens Munck Nordentoft: *The Value of the Barium Enema in the Diagnosis and Treatment of Intussusception in Children*. 1943. Price Sw. Kr. 15: —.

LII. Torfinn Denstad: *The Radiosensitivity of the Bone Marrow*. 1943. Price Sw. Kr. 15: —.

LIII. Ragnar Steinert: *Renal Tuberculosis and Roentgenologic Examination*. 1943. Price Sw. Kr. 15: —.

LIV. Sven Hultberg: *Untersuchungen über die Röntgennahbestrahlung*. 1943. Price Sw. Kr. 15: —.

LV. Magnus Strandqvist: *Studien über die kumulative Wirkung der Röntgenstrahlen bei Fraktionierung*. 1944. Price Sw. Kr. 25: —.

LVI. Arne Engeset: *Cerebral Angiography with Perabrodil (Carotis Angiography)*. 1944. (Out of print.)

LVII. Sture Rödén: *On Cancer of the Breast, with Special Reference to the Results of Different Methods of Treatment*. 1944. Price Sw. Kr. 8: —.

LVIII. Nils P. G. Edling: *Urethrocystography in the Male with Special Regard to Micturition*. 1945. Price Sw. Kr. 20: —.

LIX. Bengt Sylvén: *Ester Sulphuric Acids of High Molecular Weight and Mast Cells in Mesenchymal Tumors*. 1945. Price Sw. Kr. 15: —.

LX. Sven Johnsson: *A Contribution to the Diagnostics of Nephromata*. 1946. Price Sw. Kr. 15: —.

LXI. Bengt S. Holmgren: *Inkonstante Hypopharynxdivertikel. Eine röntgenologische Untersuchung*. 1946. Price Sw. Kr. 15: —.

LXII. Hans-Gösta Skarby: *Beiträge zur Diagnostik der Paranephritiden mit besonderer Berücksichtigung des Röntgenverfahrens.* 1946. Price Sw. Kr. 15: —.

LXIII. Arne Engström: *Quantitative Micro- and Histochemical Elementary Analysis by Roentgen Absorption Spectrography.* 1946. Price Sw. Kr. 10: —.

LXIV. Axel Ingelman-Sundberg: *Rectal Injuries Following Radium Treatment of Cancer of the Cervix Uteri.* 1947. Price Sw. Kr. 10: —.

LXV. Hans Hellmer: *Intussusception in Children. Diagnosis and Therapy with Barium Enema.* 1948. Price Sw. Kr. 15: —.

LXVI. Ivan Hermodsson: *On the Roentgenologic Appearance of Osteo-Arthrosis Deformans in the Hip Joint.* 1947. Price Sw. Kr. 10: —.

LXVII. Harry Mossberg: *Thrombocytopenia Following Local Radiotherapy.* 1947. Price Sw. Kr. 15: —.

LXVIII. Folke Jacobsson: *Carcinoma of the Tongue.* 1948. Price Sw. Kr. 20: —.

LXIX. Erik Lindgren: *A Pneumographic Study of the Temporal Horn with Special Reference to Tumours in the Temporal Region.* 1948. Price Sw. Kr. 25: —.

LXX. Olle Olsson: *Studies on Back-Flow in Excretion Urography.* 1948. Price Sw. Kr. 20: —.

LXXI. K. G. Hansen: *On the Transmission through Skin of Visible and Ultraviolet Radiation.* 1948. Price Sw. Kr. 8: —.

LXXII. Ingmar Wickbom: *Angiography of the Carotid Artery.* 1948. Price Sw. Kr. 25: —.

LXXIII. H. Gladnikoff: *A Roentgenographic Study of the Mediastinum in Health and Primary Pulmonary Carcinoma.* 1948. Price Sw. Kr. 15: —.

LXXIV. K. Lindblom: *Arthrography of the Knee. A Roentgenographic and Anatomical Study.* 1948 Price Sw. Kr. 20: —.

LXXV. Sigfrid Arnell: *Myelography with Water-Soluble Contrast.* 1948. Price Sw. Kr. 15: —.

LXXVI. Arne Nelson: *Determination of Physical Factors Influencing the Quality of the Radiographic Image.* 1949. Price Sw. Kr. 15: —.

LXXVII. Bengt A. Nohrman: *Cancer of the Breast. A Clinical Study of 1,042 Cases Treated at Radiumhemmet, 1936—1941.* 1949. Price Sw. Kr. 15: —.

LXXVIII. Herman Leissner: *Studies on the Classification of Carcinoma of the Uterus A Patho-anatomical and Clinical Investigation.* 1950. Price Sw. Kr. 20: —.

LXXIX. Olof Norman: *Hysterography in Cancer of the Corpus of the Uterus.* 1950. Price Sw. Kr. 20: —.

LXXX: Åke Lindbom: *Arteriosclerosis and Arterial Thrombosis in the Lower Limb. A Roentgenological Study.* 1950. Price Sw. Kr. 15: —.

LXXXI. Anders Sonesson: *Odontogenic Cysts and Cystic Tumours of the Jaws. A Roentgendiagnostic and Patho-anatomic Study.* 1950. Price Sw. Kr. 20: —.

LXXXII. John Lind: *Heart Volume in Normal Infants. A Roentgenological Study.* 1950. Price Sw. Kr. 15: —.

LXXXIII. Andreas Høyer: *Abdominal distension and intestinal activity following laparotomy.* 1950. Price Sw. Kr. 15: —.

LXXXIV. Olof Norman: *Studies on the hepatic ducts in cholangiography.* 1951. Price Sw. Kr. 15: —. (Out of print.)

LXXXV (85). Arne Frantzell: *Soft tissue radiography. Technical aspects and clinical applications in the examination of limbs.* 1951. Price Sw. Kr. 20: —.

LXXXVI (86). Ingemar Hessén: *Roentgen examination of pleural fluid. A study of the localization of free effusions, the potentialities of diagnosing minimal quantities of fluid and its existence under physiological conditions.* 1951. Price Sw. Kr. 20: —.

LXXXVII (87). Stig Radner: *Vertebral angiography by catheterization. A new method employed in 221 cases.* 1951. Price Sw. Kr. 20: —.

LXXXVIII (88). Lars Lönnerblad: *Transit time through the small intestine. A roentgenologic study on normal variability.* 1951. Price Sw. Kr. 20: —.

LXXXIX (89). Gunnar Jönsson, Bror Brodén and Johan Karnell: *Thoracic aortography with special reference to its value in patent ductus arteriosus and coarctation of the aorta.* 1951. Price Sw. Kr. 30: —.

XC (90). Jean-Pierre Bugnion: *Lésions nouvelles du poignet. Pseudokystes nécrobiotiques. Kystes par herniations capsulaires. Arthrite chronique dégénérative par ostéochondrose marginale.* 1951. Price Sw. Kr. 20: —.

XCI (91). Jan Asplund: *The uterine cervix and isthmus under normal and pathological conditions. A clinical and roentgenological study.* 1952. Price Sw. Kr. 20: —.

XCII (92). Arne Lindell: *Carcinoma of the uterine cervix. Incidence and influence of age. A statistical study.* 1952. Price Sw. Kr. 20: —.

XCIII (93). Erik Odeblad: *Contributions to the theory and technique of quantitative autoradiography with P^{32} with special reference to the granulosa tissue of the Graafian follicles in the rabbit.* 1952. Price Sw. Kr. 20: —.

XCIV (94). Sven-Olof Brattgård and Holger Hydén: *Mass, lipids, pentose nucleoproteins and proteins determined in nerve cells by X-ray microradiography.* 1952. Price Sw. Kr. 15: —.

XCV (95). Olallo Morales and Ragnar Romanus: *Urethrography in the male with a highly viscous, water-soluble contrast medium, Umbradil-Viscous U.* 1952. Price Sw. Kr. 20: —.

XCVI (96). Sven-Olof Brattgård; *The importance of adequate stimulation for the chemical composition of retinal ganglion cells during early post-natal development.* 1952. Price Sw. Kr. 20: —.

XCVII (97). Lucio Di Guglielmo and Mario Guttadauro: *A roentgenologic study of the coronary arteries in the living.* 1952. Price Sw. Kr. 20: —.

XCVIII (98). Sigvard Kaae: *Radiotherapy in cancer of the breast.* 1952. Sw. Kr. 20: —.

XCIX (99). Rolf Köhler: *Investigations on backflow in retrograde pyelography. A roentgenological and clinical study.* 1953. Sw. Kr. 20: —.

100. Gunnar Gorton: *Post-irradiative prophylactic extraperitoneal lymphadenectomy in carcinoma of the uterine cervix.* 1953. Sw. Kr. 20: —.

101. Herman Lodin: *The value of tomography in examination of the intrapulmonary bronchi.* 1953. Sw. Kr. 20: —.

102. Sven Bellman: *Microangiography.* 1953. Sw. Kr. 20: —.

103. Ingemar Bokström: *Principles of vertebral tomography.* 1953. Sw. Kr. 20: —.

104. Francesco Castellano and Giovanni Ruggiero: *Meningiomas of the posterior fossa.* 1953. Sw. Kr. 30: —, bound 35: —.

105. Lorentz Nitter: *Changes in the chest roentgenogram in Boeck's sarcoid of the lungs.* 1953. Price Sw. Kr. 25: —.

106. Ture Andersson: *Electrokymographic examinations in mitral valve disease.* 1953. Price Sw. Kr. 20: —.

107. Curt Johanson: *The central veins and deep dural sinuses of the brain. An anatomical and angiographic study.* 1954. Price Sw. Kr. 25: —.

108. Björn Nordenström: *Temporary unilateral occlusion of the pulmonary artery.* 1954. Price Sw. Kr. 30: —.

109. Tormod Hauge: *Catheter vertebral angiography.* 1954. Price Sw. Kr. 30: —.

110. Lars Billing: *Roentgen examination of the proximal femur end in children and adolescents.* 1954. Price Sw. Kr. 25: —.

111. Lars Winderen and Johannes Zimmer: *Cholesteatoma of the middle ear.* 1954. Price Sw. Kr. 20: —.

112. Gunnar Moberger: *Malignant transformation of squamous epithelium.* 1954. Price Sw. Kr. 25: —.

113. K. A. Hultborn: *The casual relationship between benign epithelial tumors and adenocarcinoma of the colon and rectum.* 1954. Price Sw. Kr. 15: —.

114. Georg-Fredrik Saltzman: *The conventional roentgenogram in the commonest congenital malformations of the heart and great vessels in adults and juveniles.* 1954. Price Sw. Kr. 25: —.

115. Carl Deden: *Cancer cells in urinary sediment.* 1954. Price Sw. Kr. 20: —.

116. Seventh International Congress of Radiology. The invited papers. The Radiobiology Symposium in Århus and The Reports from the International Commissions. 1954. Price Sw. Kr. 40: —.

117. Reports submitted to the International Commission on Radiological Units (ICRU), Copenhagen, July 1953. 1954. Price Sw. Kr. 25: —.

118. Sven Ullberg: *Studies on the distribution and fate of S^{35}-labelled benzylpenicillin in the body.* 1954. Price Sw. Kr. 25: —.

119. Finn Devik: *A study of the local roentgen reaction on the skin of mice, with special reference to the vascular effects.* 1955. Price Sw. Kr. 15: —.

120. Ove Mattsson: *Practical photographic problems in radiography with special reference to high-voltage technique.* 1955. Price Sw. Kr. 30: —.

121. Diego Carlström: *X-ray crystallographic studies on apatites and calcified structures.* 1955. Price Sw. Kr. 25: —.

122. Ingmar Fernström: *Arteriography of the uterine artery.* Its value in the diagnosis of uterine fibromyoma, tubal pregnancy, adnexal tumour, and placental site localization in cases of intra-uterine pregnancy. 1955. Price Sw. Kr. 30: —.

123. Kristina Ekengren: *Roentgenographic diagnosis of genital tuberculosis in the female and roentgenographic effects of antibiotic therapy.* 1955. Price Sw. Kr. 30: —.

124. K. A. Hultborn, O. Morales and R. Romanus: *The so-called shelf tumour of the rectum.* 1955. Price Sw. Kr. 20: —.

125. Bo Lindström: *Roentgen absorption spectrophotometry in quantitative cytochemistry.* 1955. Price Sw. Kr. 30: —.

126. Lars-Gunnar Larsson: *Studies on radioiodine treatment of thyrotoxicosis.* With special reference to the behaviour of the radioiodine tracer tests. 1955. Price Sw. Kr. 25: —.

127. Olaf Petersen: *Precancerous changes of the cervical epithelium in relation to manifest cervical carcinoma.* 1955. Price Sw. Kr. 25: —.

128. Boyce Worthley, John Tooze, Joan Brown and Robert M. Fry: *Dosage estimation in radiotherapy.* 1955. Price Sw. Kr. 25: —.

129. Gregers Thomsen: *Hiatus hernia in children.* 1955. Price Sw. Kr. 25: —.

130. Åke Gidlund: *Development of apparatus and methods for roentgen studies in haemodynamics.* 1956. Price Sw. Kr. 25: —.

131. Åke Åkerlund: *Gösta Forssell 1876—1950.* To the memory of his life and work. 1956. Price Sw. Kr. 15: —.

132. T. W. Lees: *Assessing the curability of cancer.* 1956. Price Sw. Kr. 20: —.

133. Curt Lagergren: *Biophysical investigations of urinary calculi.* 1956. Price Sw. Kr. 25: —.

134. Ulf Rudhe: *Electrokymography* with special reference to valvular pulmonary and infundibular stenosis. 1956. Price Sw. Kr. 30: —.

135. Sven Erik Englund: *Observations on the migration of some labelled substances between the urinary bladder and the blood in the rabbit.* 1956. Price Sw. Kr. 25: —.

136. Hans Idbohrn: *Renal angiography in experimental hydronephrosis.* 1956. Price Sw. Kr. 20: —.

137. Vidar Backlund: *Über die Technik der simultanen Telefilmplanigraphie.* 1956. Price Sw. Kr. 25: —.

138. Stig Fagerberg: *Tomographic studies on the normal and injured knee.* 1956. Price Sw. Kr. 30: —.

139. Tauno Mannila: *On parallax and variations in the stereoscopic image with a view to stereofluoroscopy.* 1956. Price Sw. Kr. 25: —.
140. Torgny Greitz: *A radiologic study of the brain circulation by rapid serial angiography of the carotid artery.* 1956. Price Sw. Kr. 30: —.
141. Helge Hertz (†) and Thomas Rosendal: *Roentgen changes in the cranium in 153 intracranial tumours in children aged 0—15 years.* 1956. Price Sw. Kr. 30: —.
142. Torsten André: *Studies on the distribution of tritium-labelled dihydrostreptomycin and tetracycline in the body.* 1956. Price Sw. Kr. 25: —.
143. Carl Einer Gudbjerg: *Bronchiectasis.* Radiological diagnosis and prognosis after operative treatment. 1957. Price Sw. Kr. 25:—.
144. Björn Westin: *Experimental studies on the disappearance of radiosodium ions from local deposits in the cavity and in the wall of the vagina of the rat.* 1957. Price Sw. Kr. 30: —.
145. O. G. A. Berggren: *Demographic studies on carcinoma of the uterine cervix in Sweden.* 1957. Price Sw. Kr. 30: —.
146. Stig Backman: *The proximal end of the femur.* Investigations with special reference to the etiology of femoral neck fractures. 1957. Price Sw. Kr. 35: —.
147. G. F. Bahr: *Changes in liver cell elements during stimulated protein synthesis.* A cytochemical study. 1957. Price Sw. Kr. 25: —.
148. Karl-Åke Omnell: *Quantitative roentgenologic studies on changes in mineral content of bone in vivo.* 1957. Price Sw. Kr. 25: —.
149. Per Westling, Kurt Sundberg and Gunnar Söderberg: *Systemic reticuloendothelial granuloma.* 1957. Price Sw. Kr. 25: —.
150. *Treatment of malignant blood diseases by radioactive phosphorus.* P. I—II. Ingmar Bergström and Erik Lindgren: P. I. Clinical aspects. 1957. Price Sw. Kr. 25: —. Ingmar Bergström: P. II. Hematological aspects. 1957. Price Sw. Kr. 25: —.

The supplements may be ordered from Acta Radiologica, Stockholm 2, Sweden, or through the usual agents.